

ABSTRACT

1 A dual mode amplifier having single ended and differential ended modes of
2 operation using only one set of output pads or terminals. The dual mode amplifier has
3 two differential amplifiers, connected by coupling circuitry, each differential amplifier
4 receiving a pair of differential input signals and having one output terminal. By
5 activating and deactivating the coupling circuitry, the differential amplifiers can operate
6 in two modes using the one set of output terminals. In the singled ended mode, the
7 differential amplifiers operate independently, each converting the differential input
8 signals to a singled ended output signal at their respective output terminals. In the
9 differential mode, the differential amplifiers operate together to provide a pair of
10 differential output signals at the output terminals based upon the pair of input signals.